

Cotransfection of 293Cre cells with pBHG10lox and a "Lox" shuttle plasmid for generation of Ad expression vectors

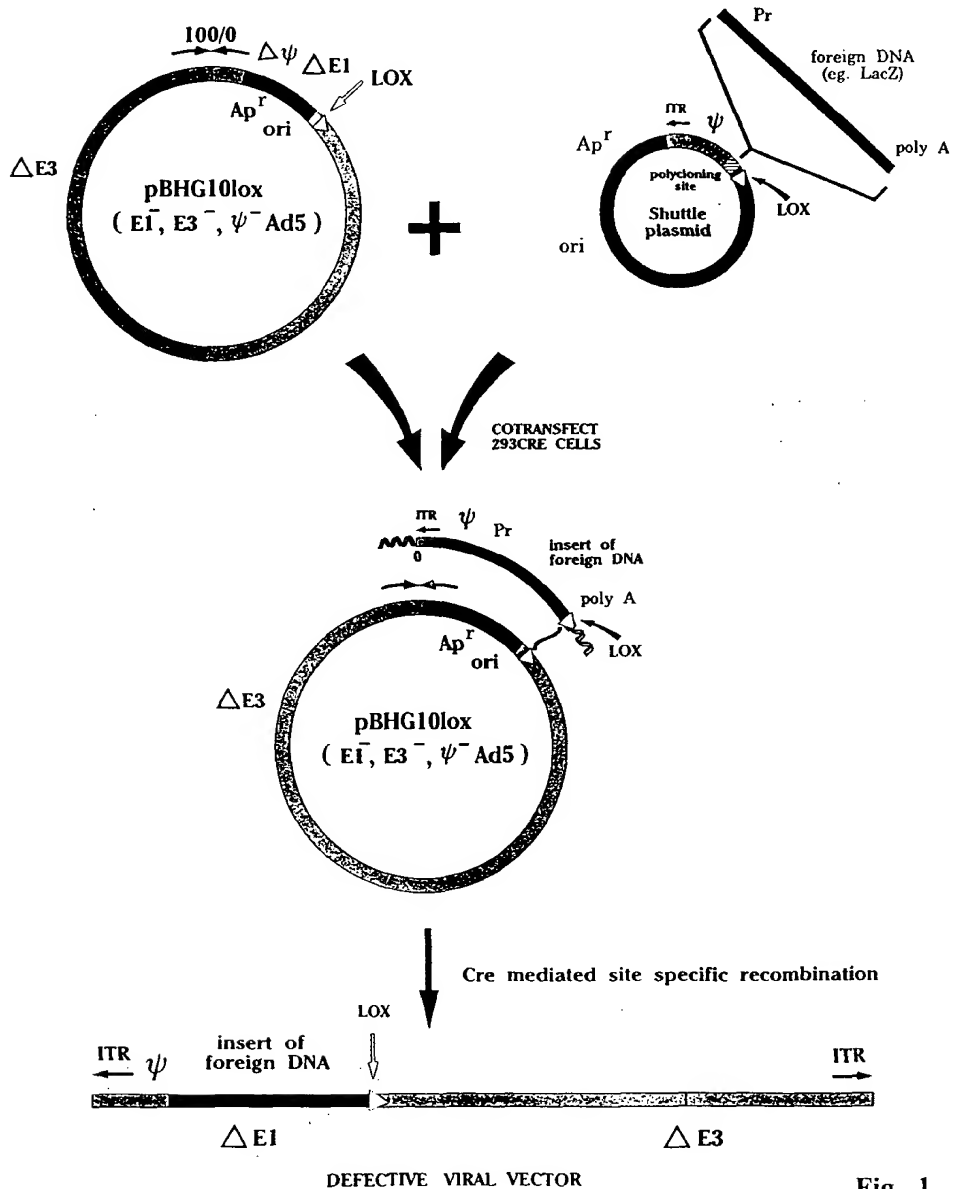
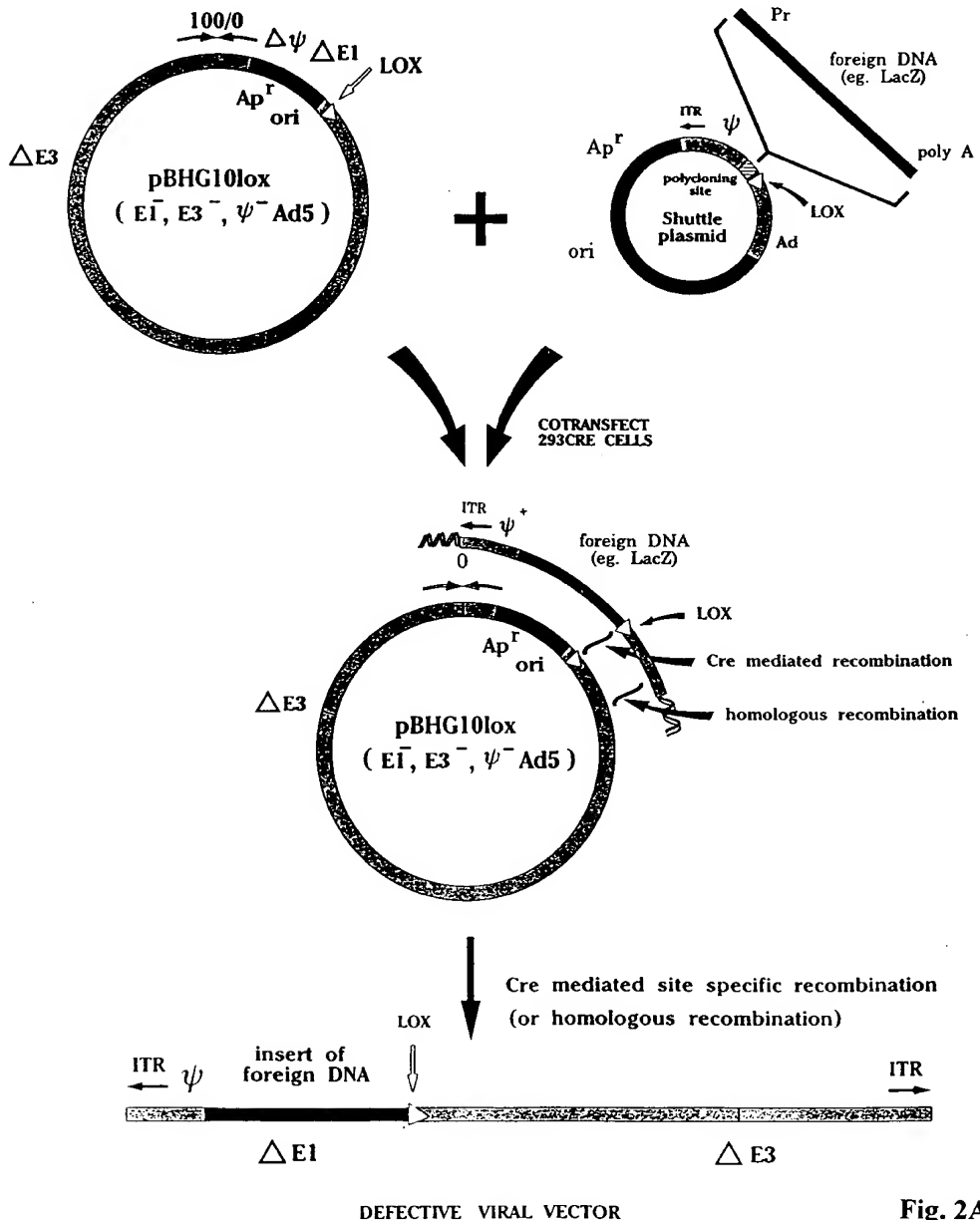


Fig. 1

**Cotransfection of 293Cre cells with pBHG10lox and a "lox" shuttle plasmid for generation of Ad expression vectors**



**Fig. 2A**

## CONSTRUCTION OF VARIOUS SHUTTLE PLASMIDS

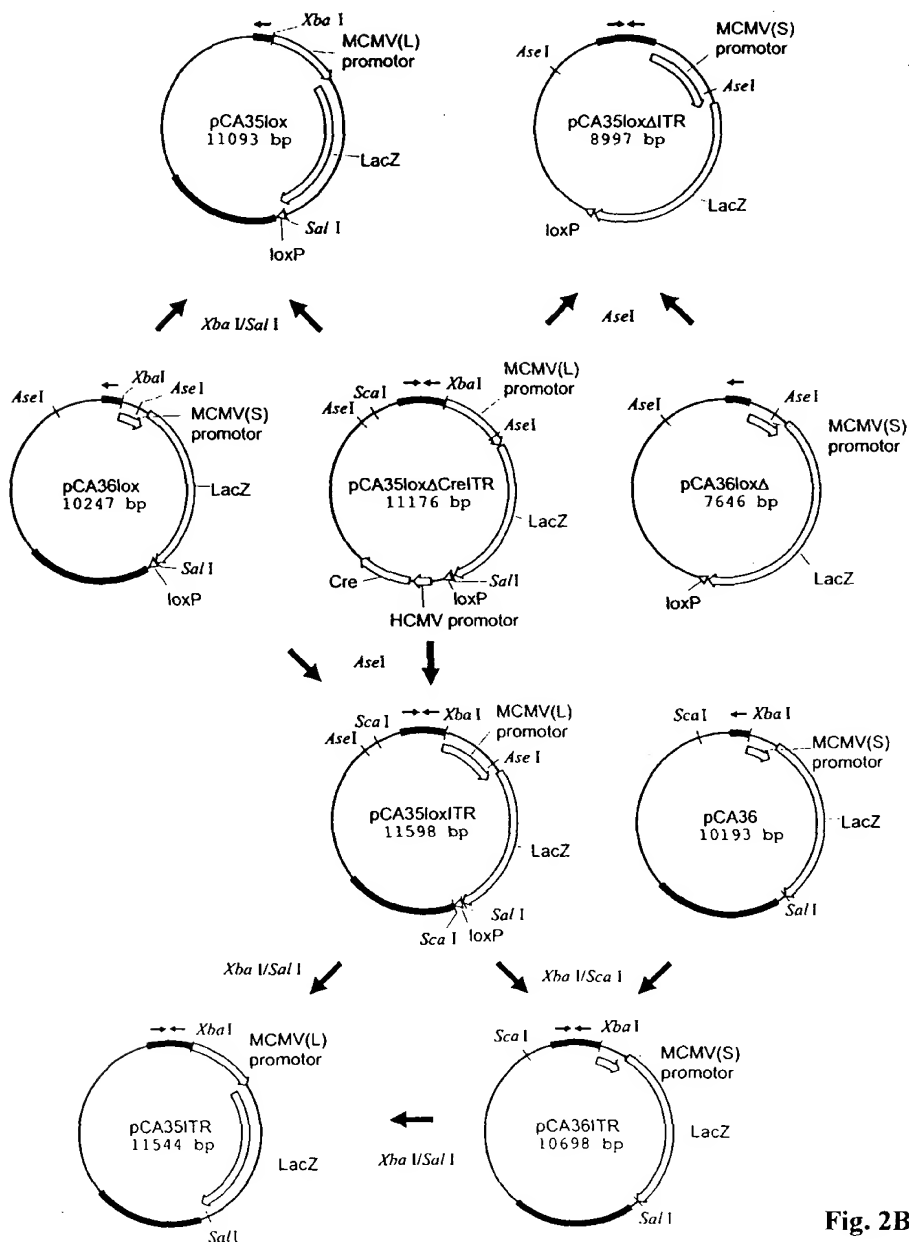


Fig. 2B

## OLIGONUCLEOTIDES USED IN CLONING

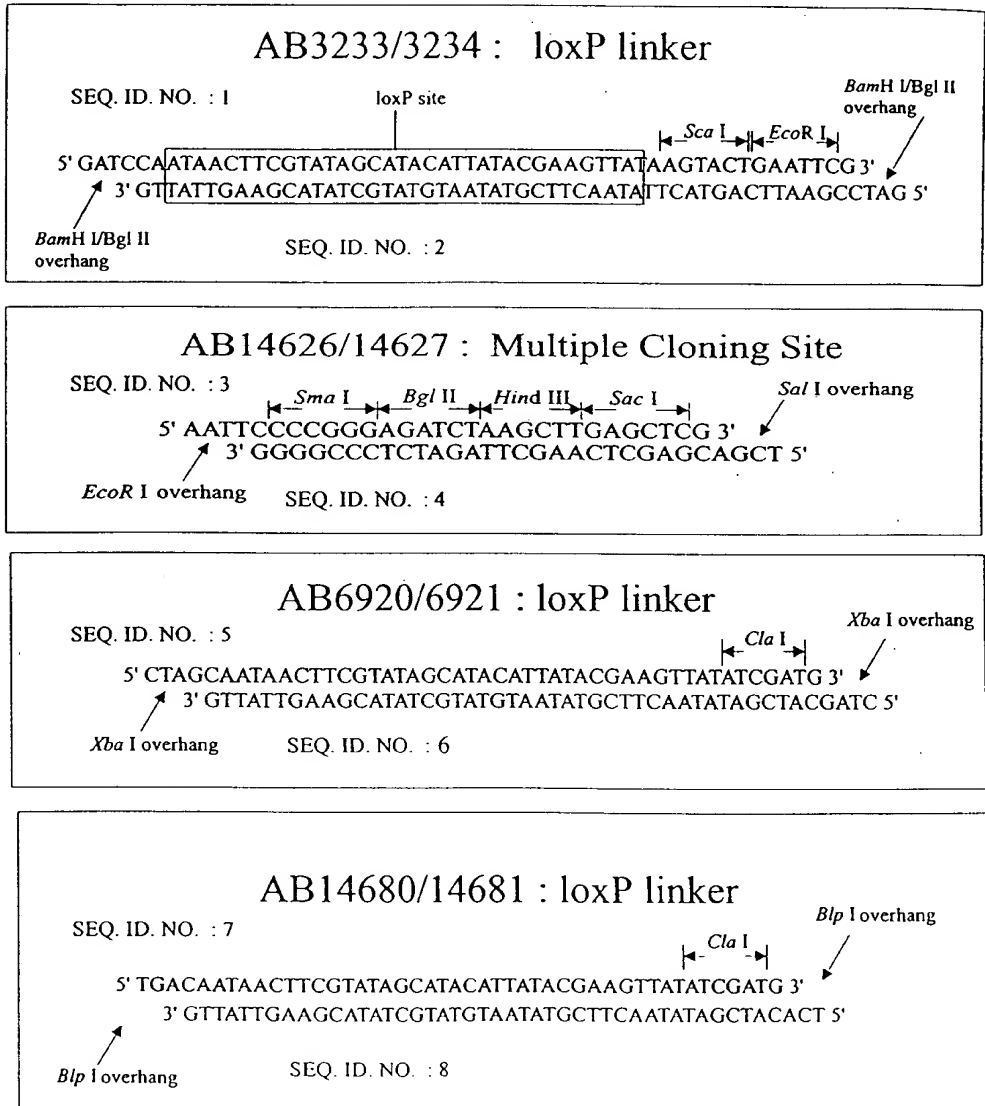


Fig. 3

# CONSTRUCTION OF A CIRCULAR GENOMIC PLASMID FOR Ad VECTOR RESCUE USING THE Cre/ loxP SYSTEM

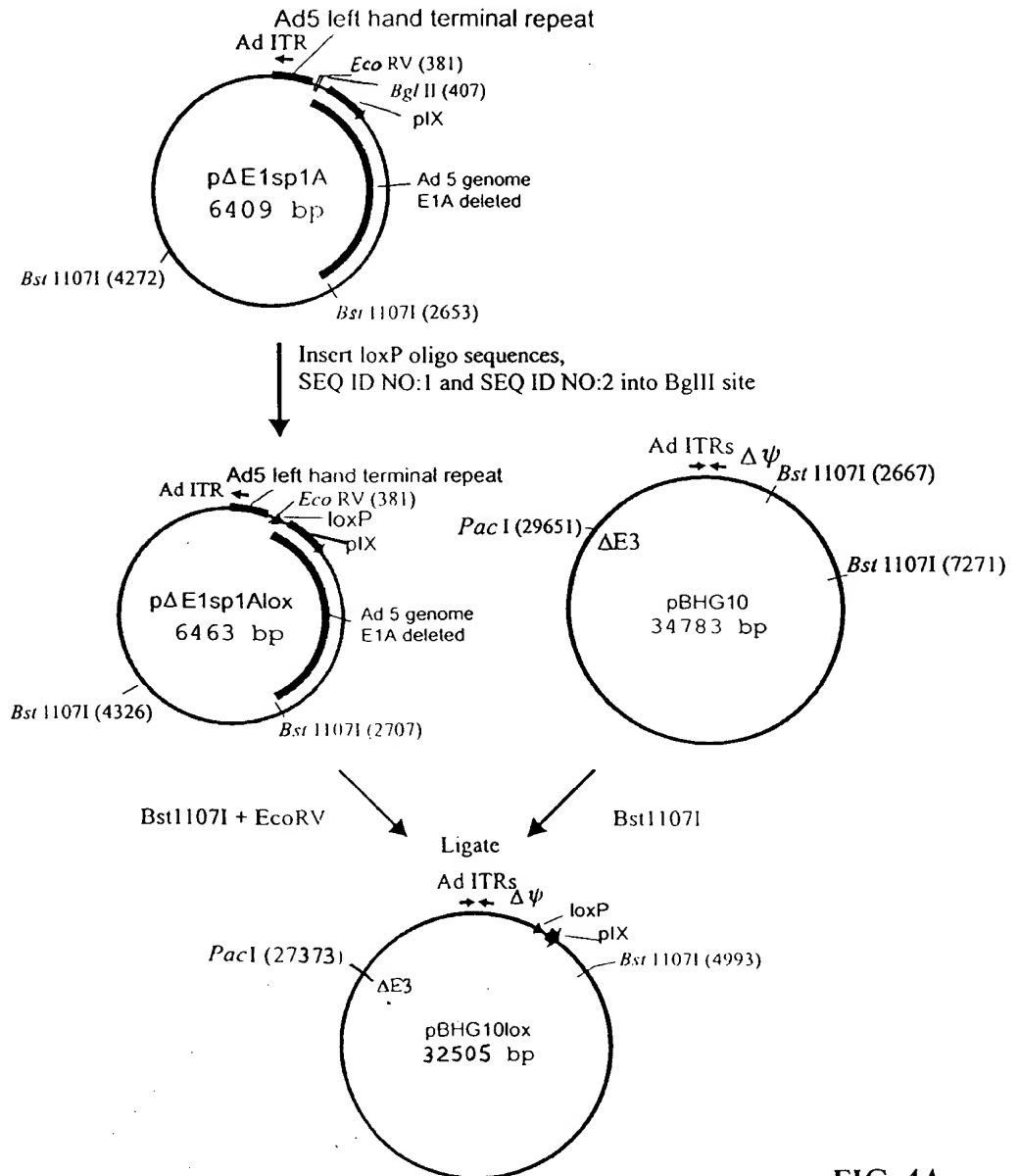


FIG. 4A

## CONSTRUCTION OF pBHGdX1Plox

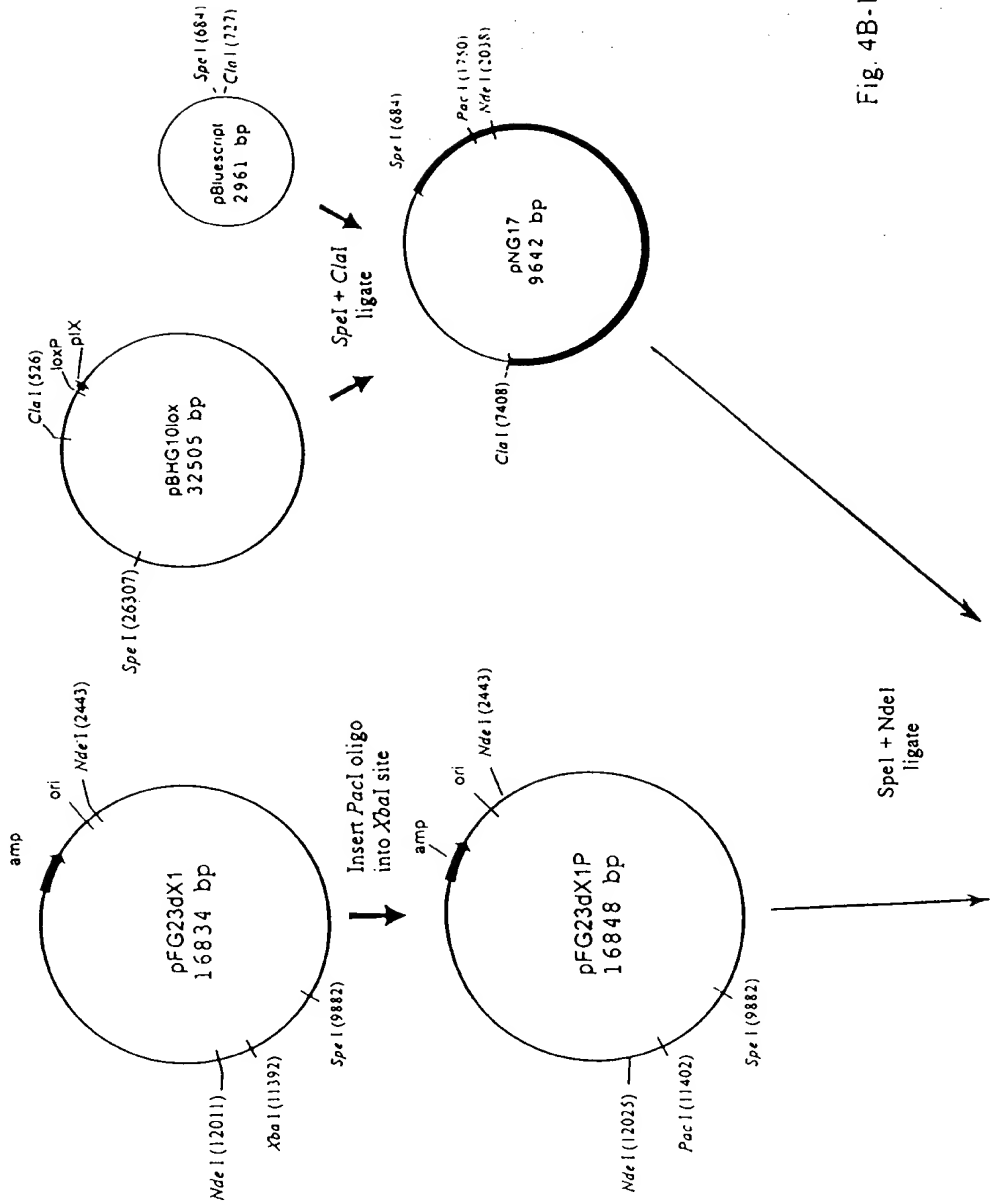


Fig. 4B-1

## CONSTRUCTION OF pBHGdX1Plox

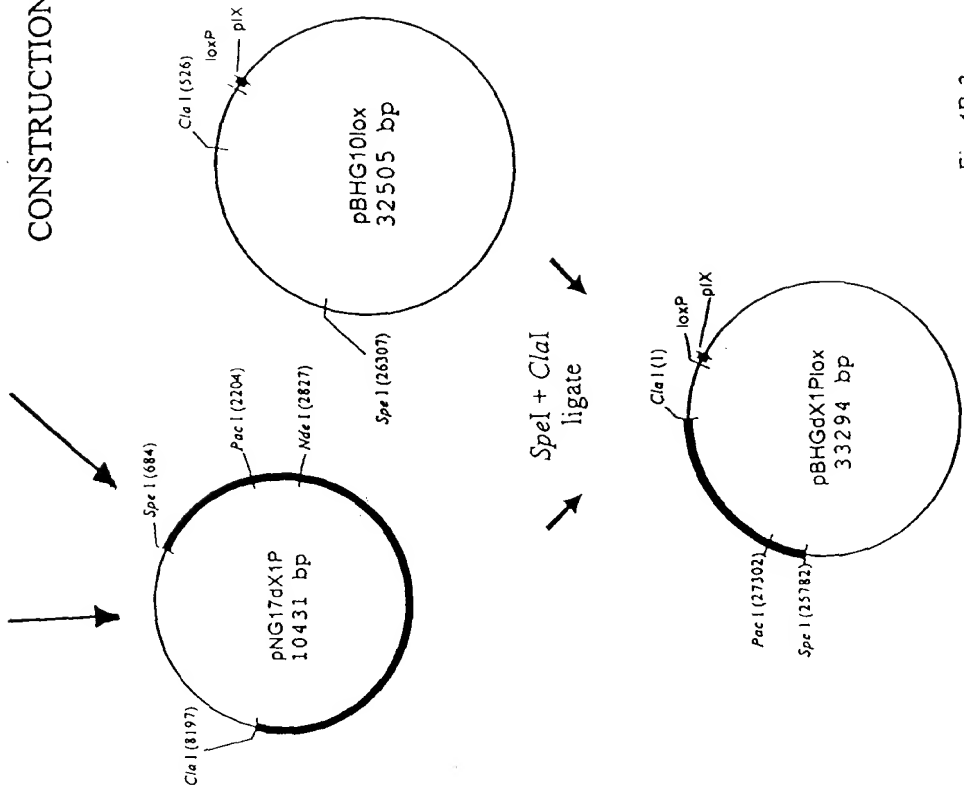


Fig. 4B-2

## CONSTRUCTION OF pBHGE3lox

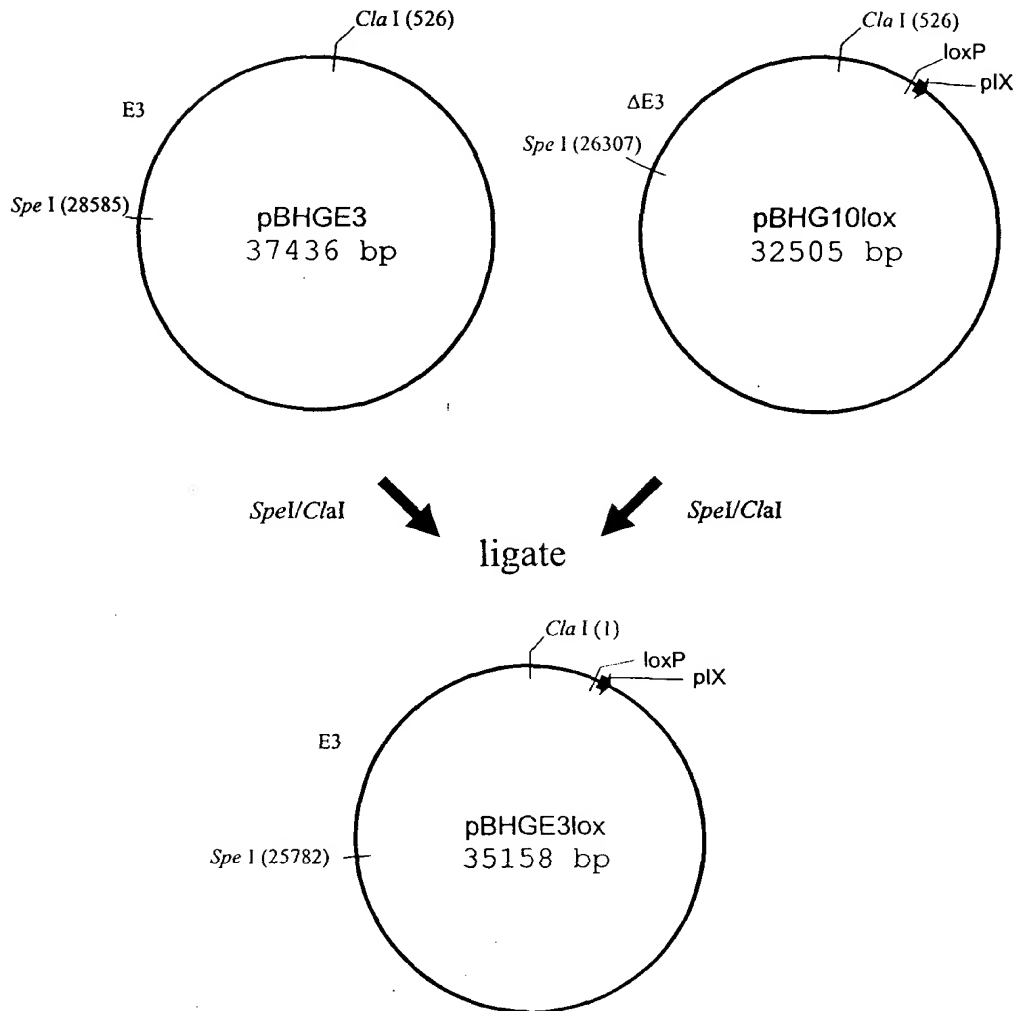


Fig. 4C



## CONSTRUCTION OF Ad GENOMIC PLASMIDS ENCODING CRE

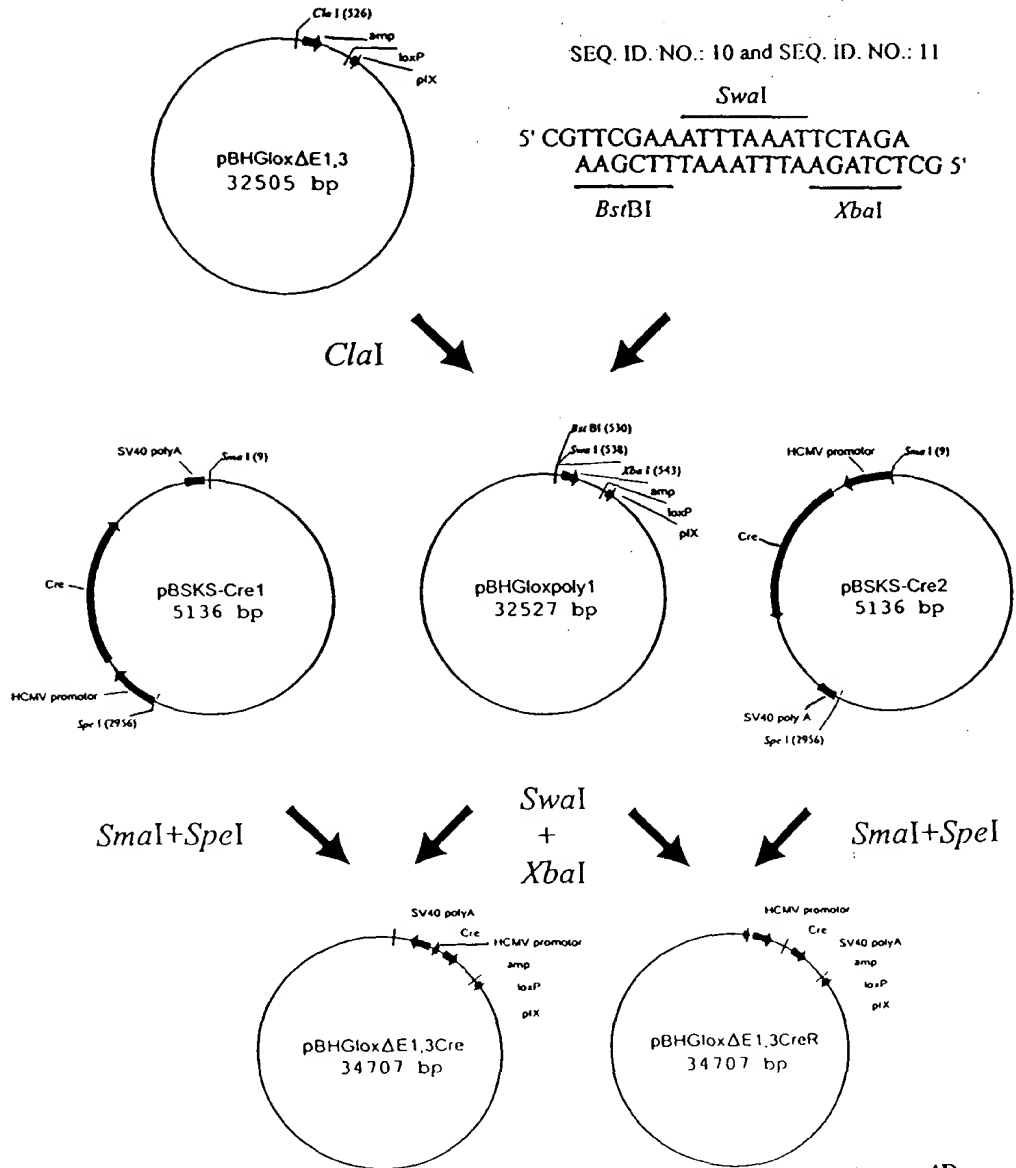


Figure 4D

# CONSTRUCTION OF pΔE1SP1A & pΔE1SP1B loxP PLASMIDS FOR RESCUE OF FOREIGN DNA

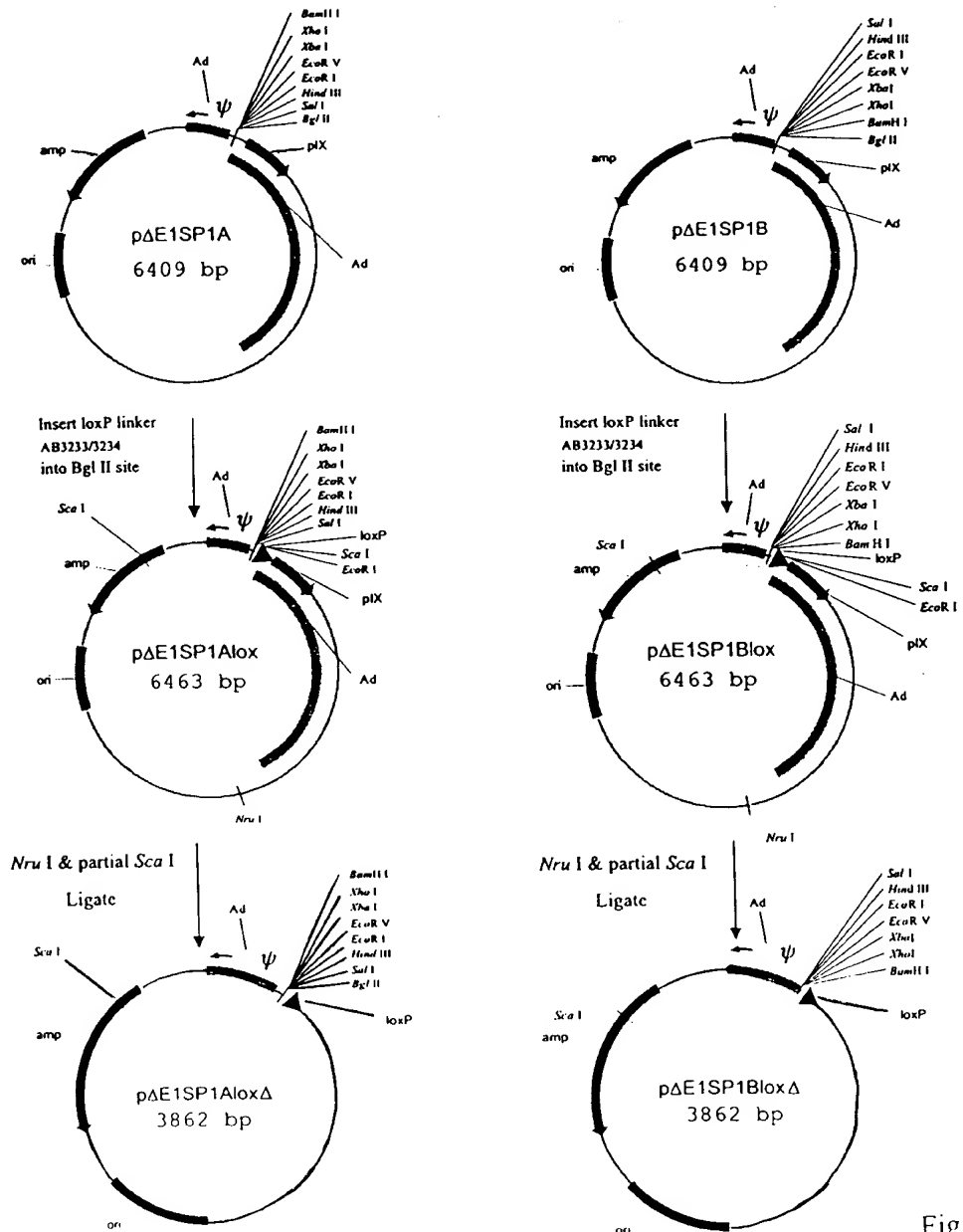


Fig. 5A

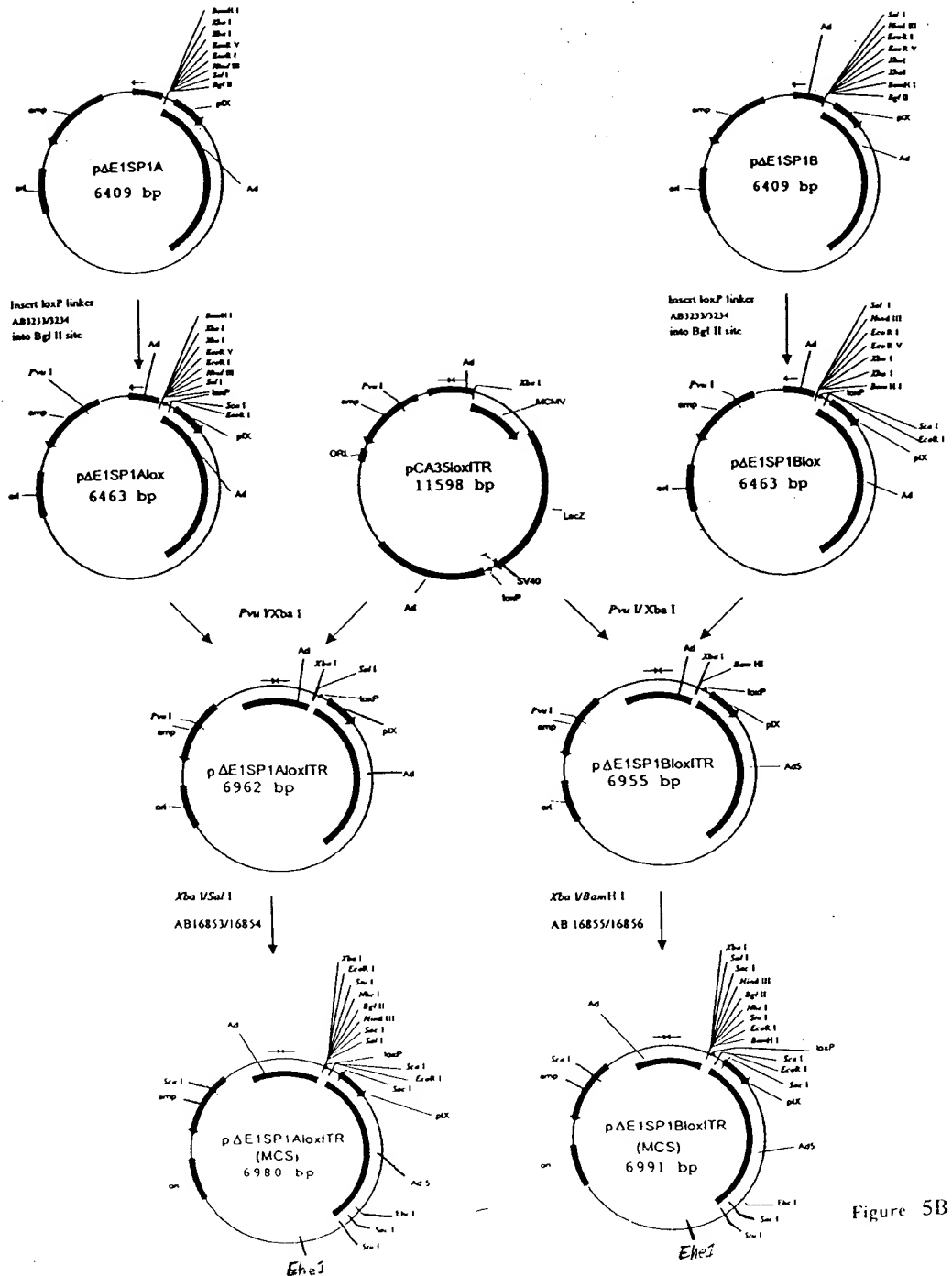


Figure 5B

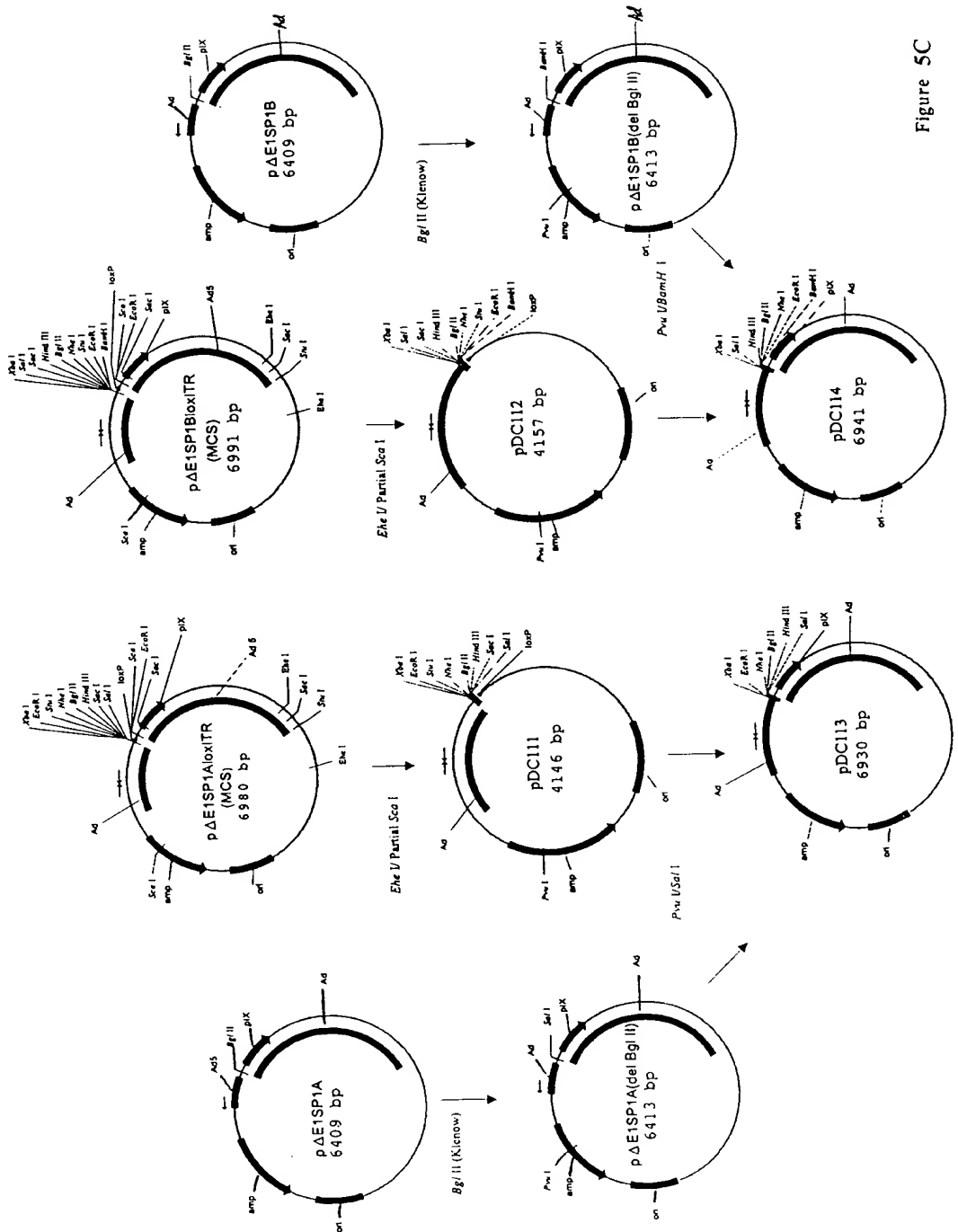
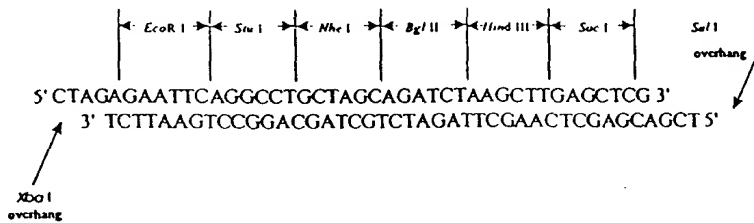


Figure 5C

SEQ. ID. NO.: 12 (AB16853) and SEQ. ID. NO.: 13 (AB16854)



SEQ. ID. NO.: 14 (AB16855) and SEQ. ID. NO.: 15 (AB16856)

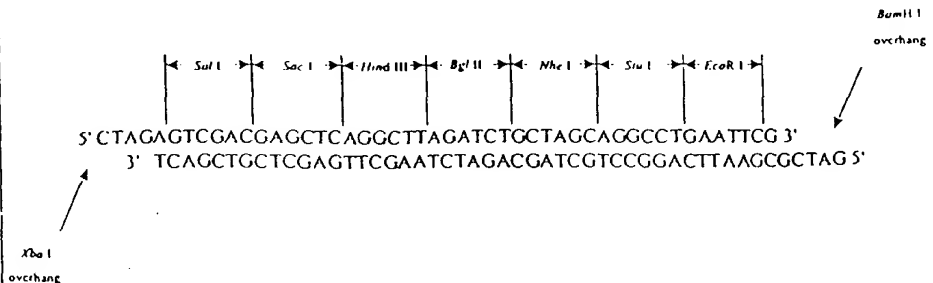


Figure 5D

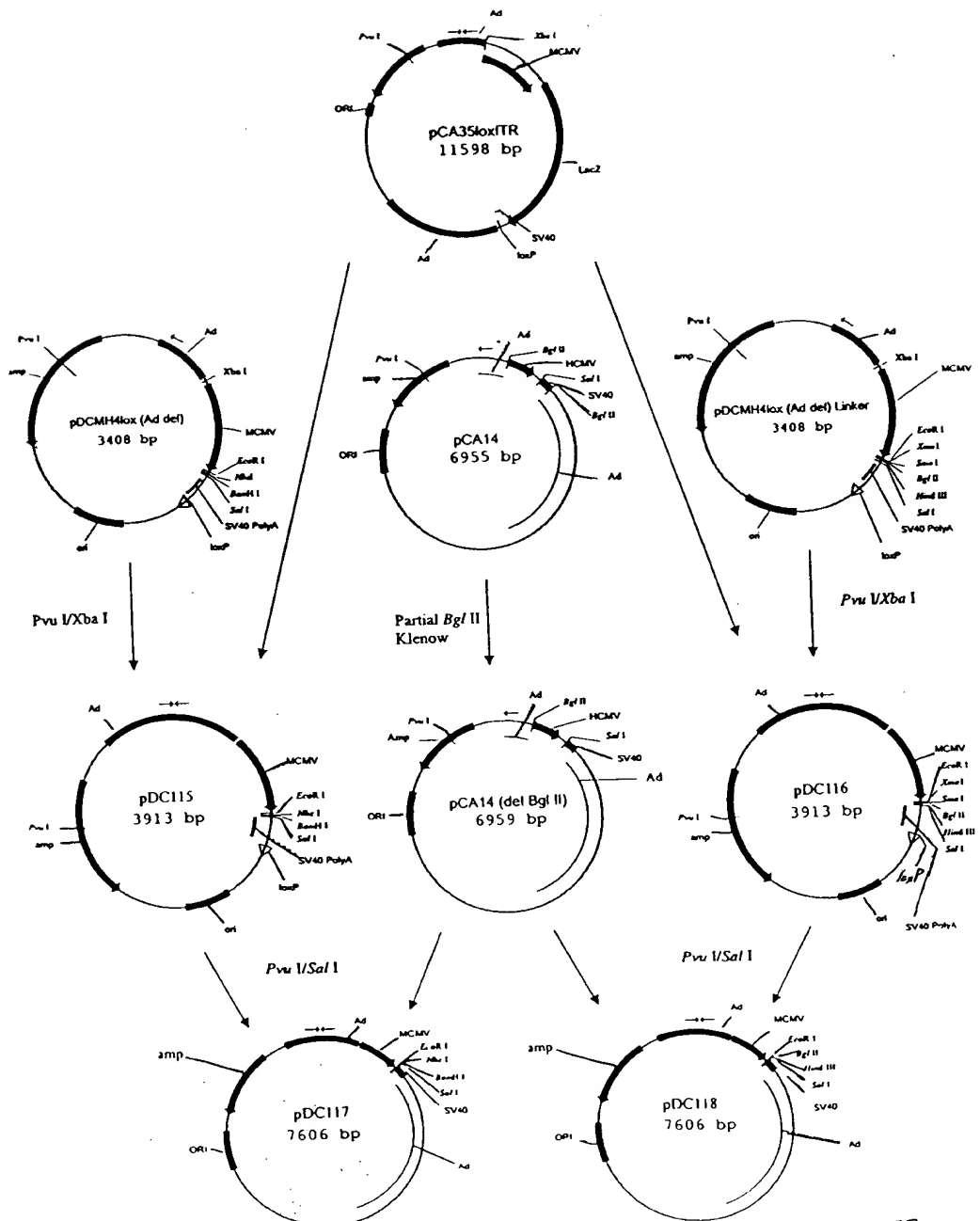


Figure 5E

# CONSTRUCTION OF pMH4LOX, pMH4LOX $\Delta$ and pMH4LOX $\Delta$ LINK SHUTTLE PLASMIDS FOR RESCUE OF EXPRESSION CASSETTES

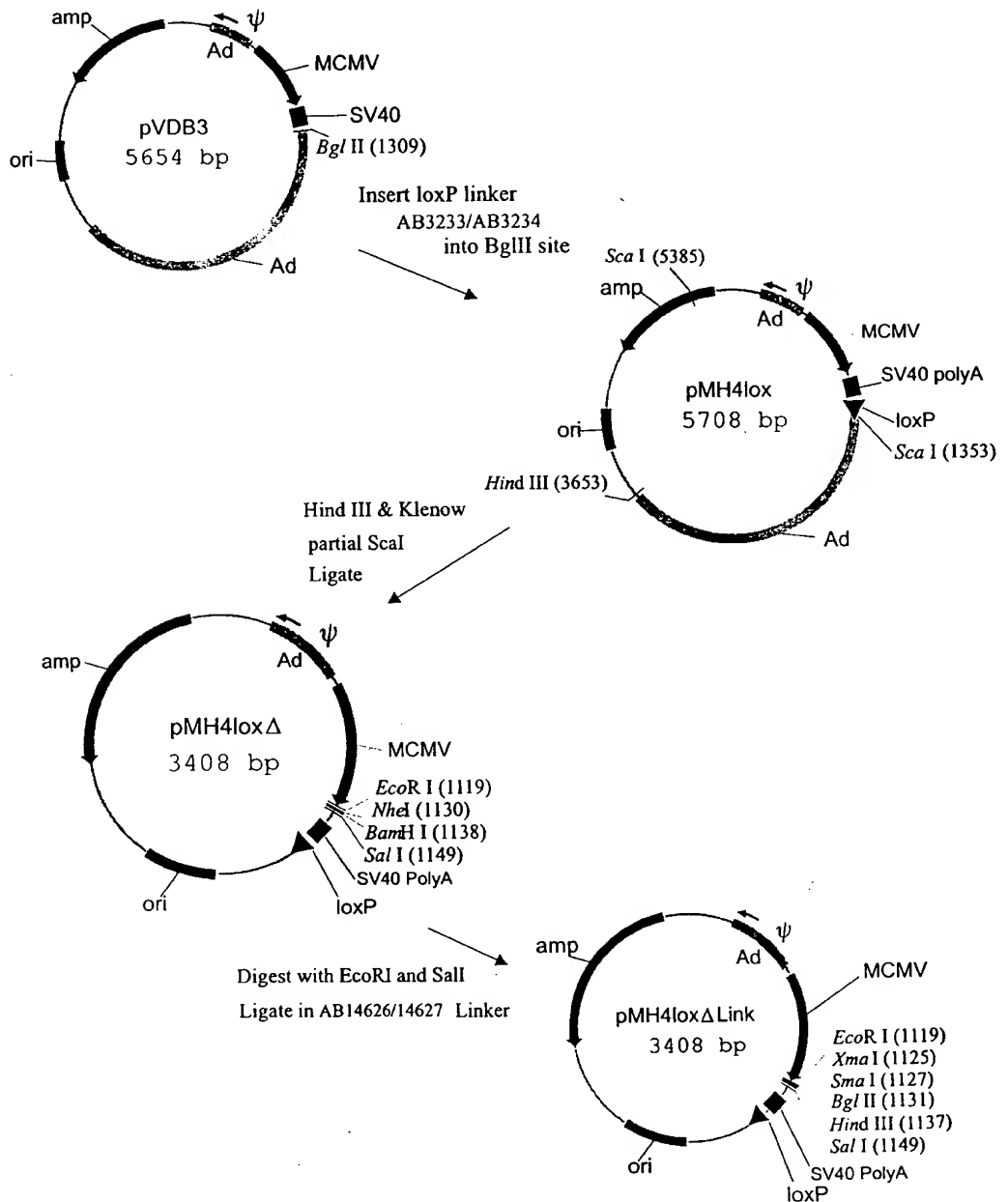


Fig. 6A

## CONSTRUCTION OF A SHUTTLE PLASMID CONTAINING A pUC DERIVED ORIGIN

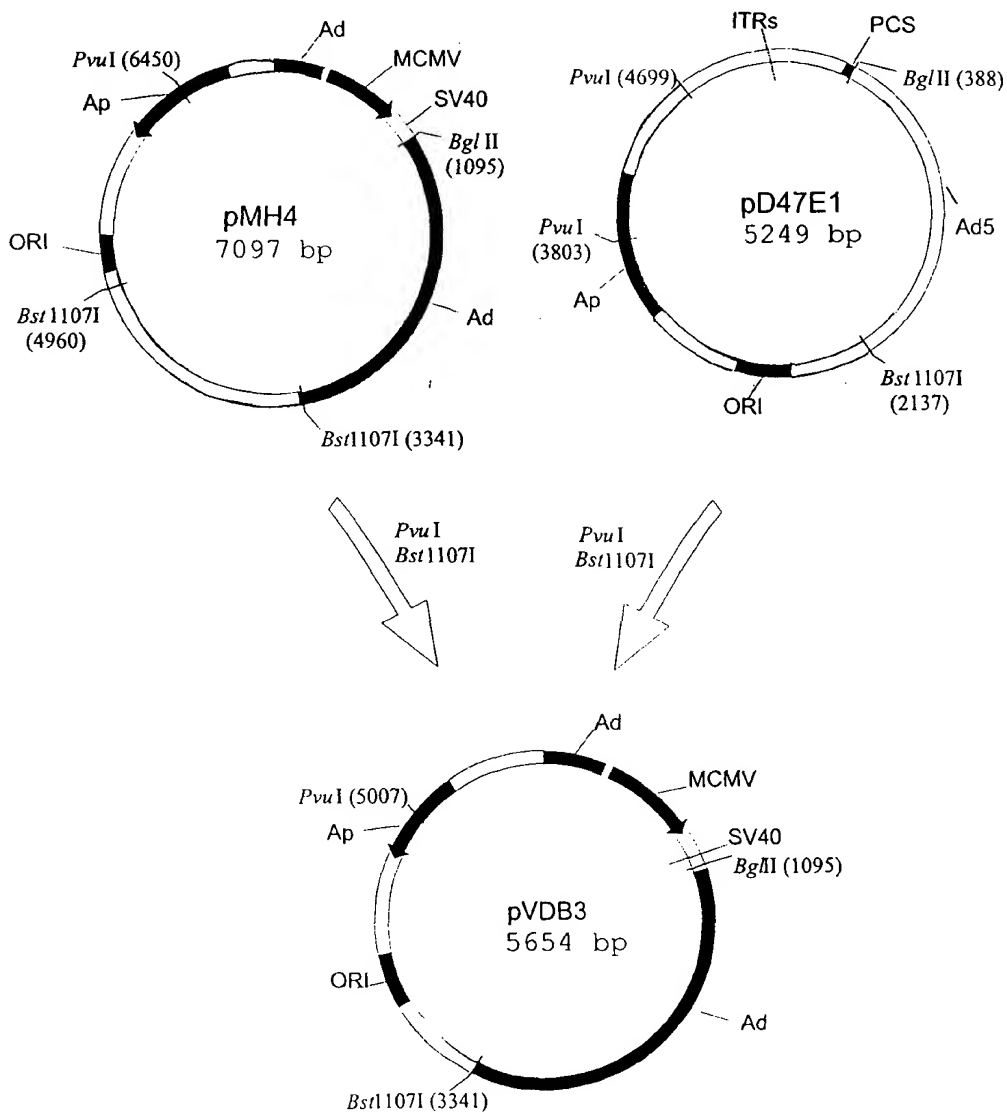


Fig. 6B



# CONSTRUCTION OF HCMV loxP PLASMIDS FOR RESCUE OF EXPRESSION CASSETTES

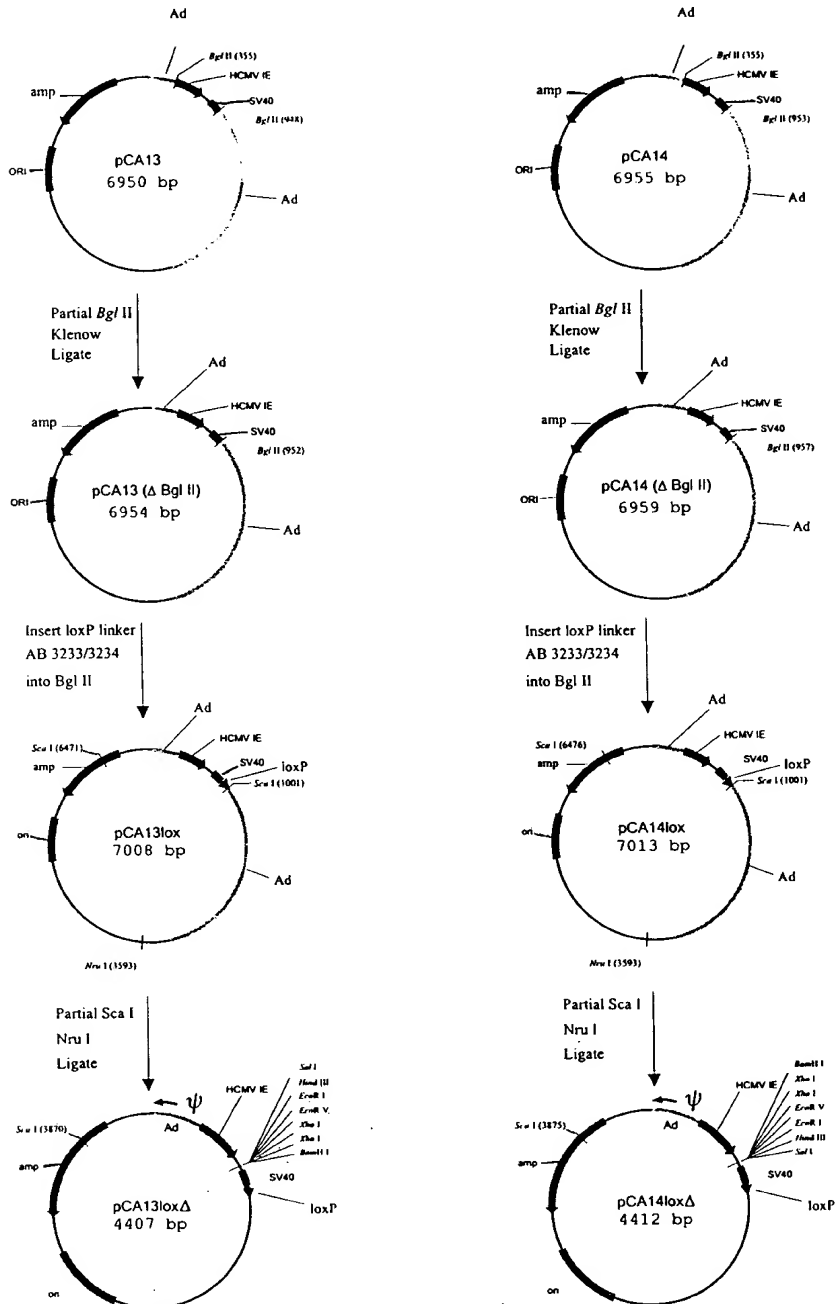


Fig. 7

# CONSTRUCTION OF pCA36LOX and pCA36LOX $\Delta$ SHUTTLE PLASMIDS FOR RESCUE OF LACZ

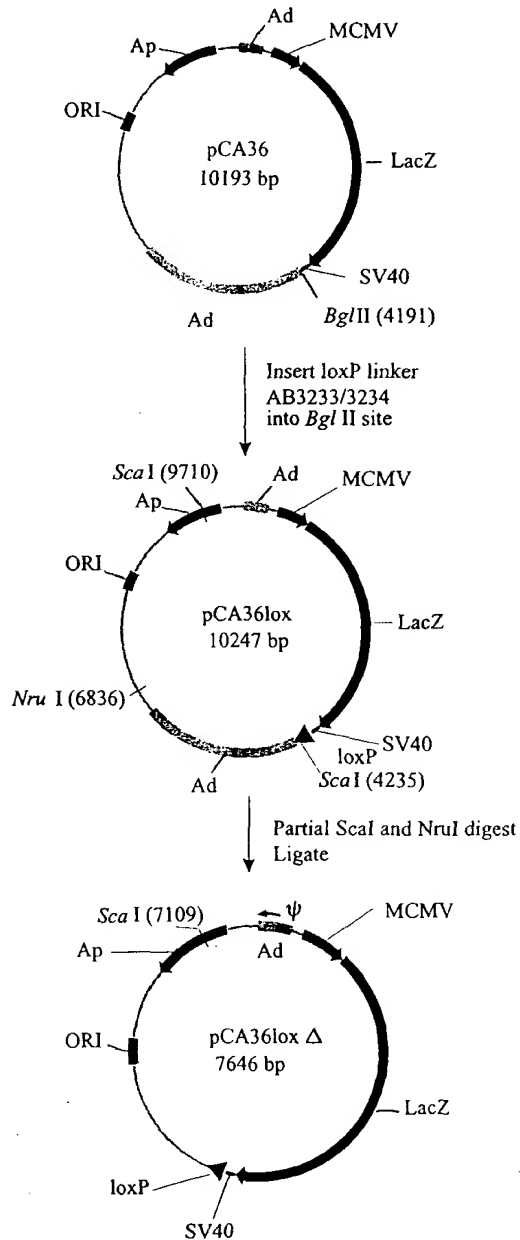
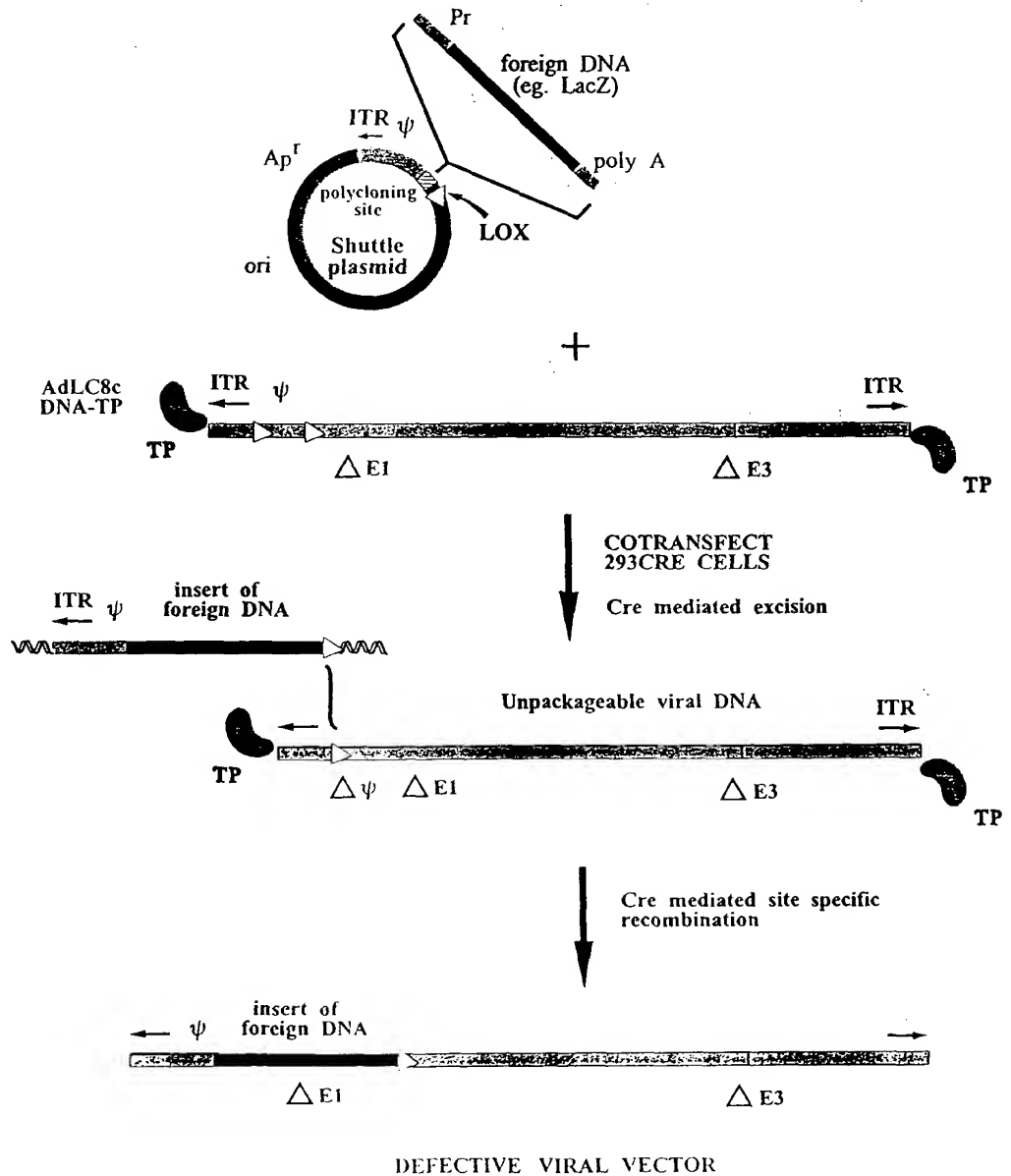


Fig. 8A

**Cotransfection of 293Cre cells with AdLC8c DNA-TP and a shuttle plasmid containing a loxP site for generation of Ad expression vectors**



**Fig. 8B**

**Cotransfection of 293Cre cells with restricted AdLC8c DNA-TP and loxP shuttle plasmid for generation of Ad expression vectors**

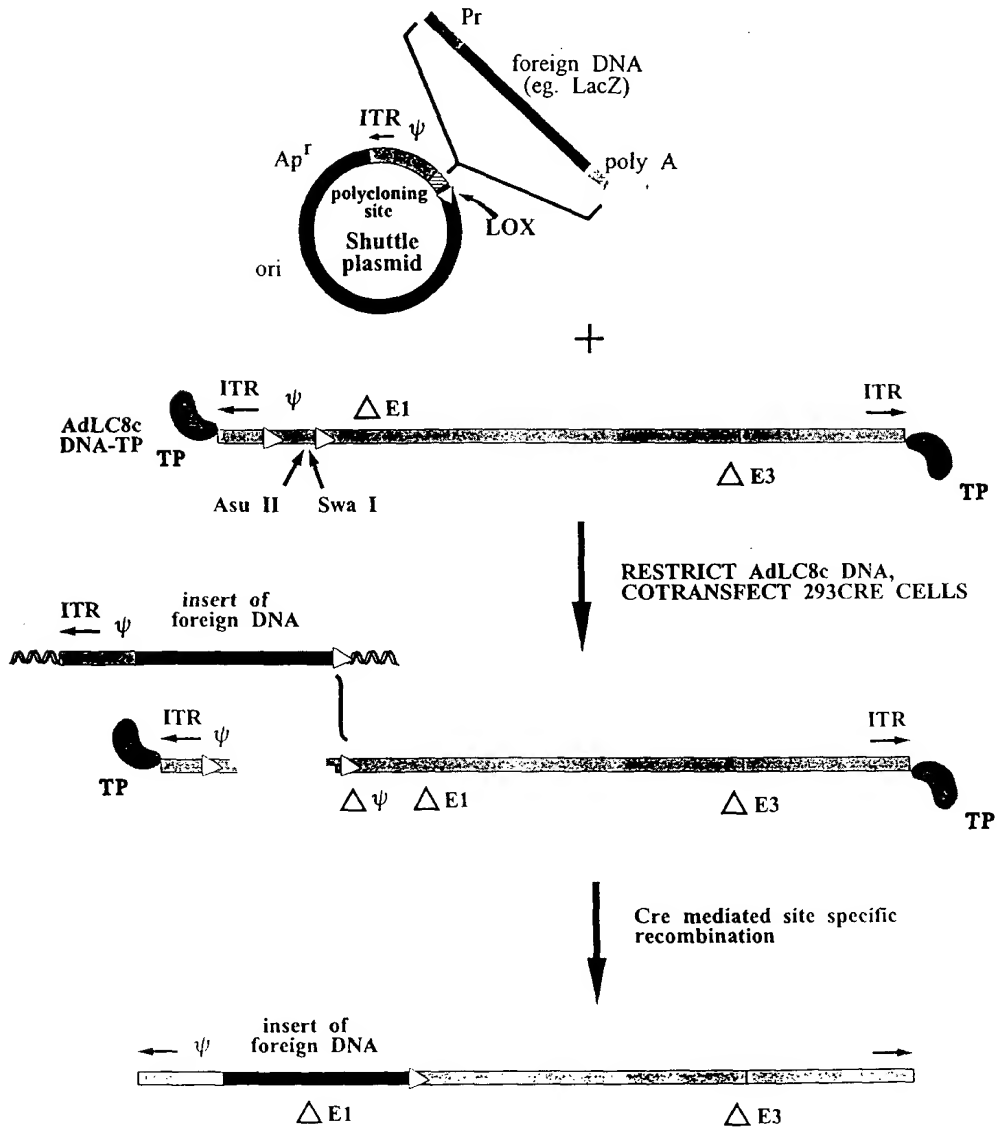


Fig. 8C

## CONSTRUCTION OF SHUTTLE PLASMIDS EXPRESSING Cre

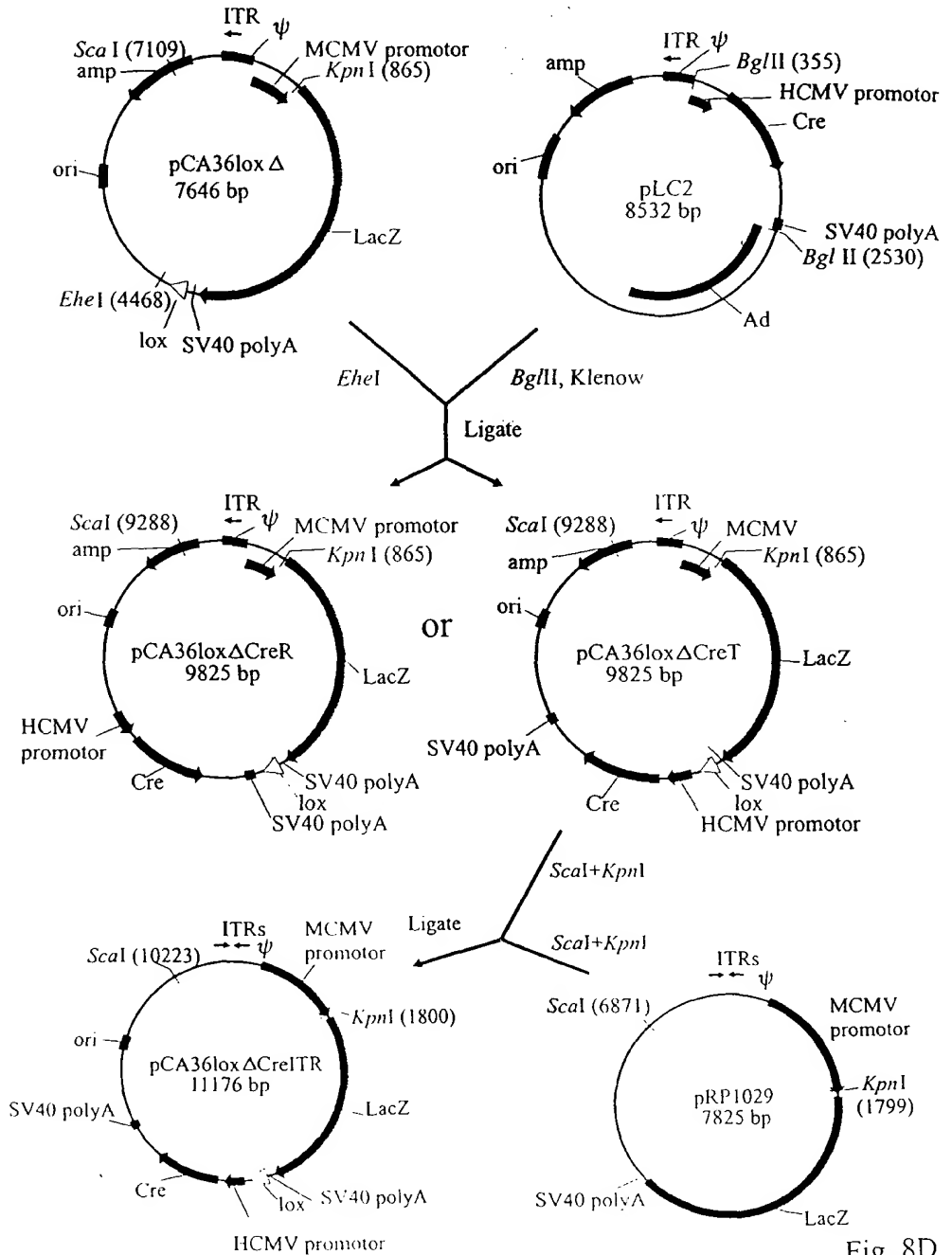


Fig. 8D

**Cotransfection of 293 cells with pBHG10lox and a "Lox" shuttle plasmid expressing Cre for generation of Ad expression vectors**

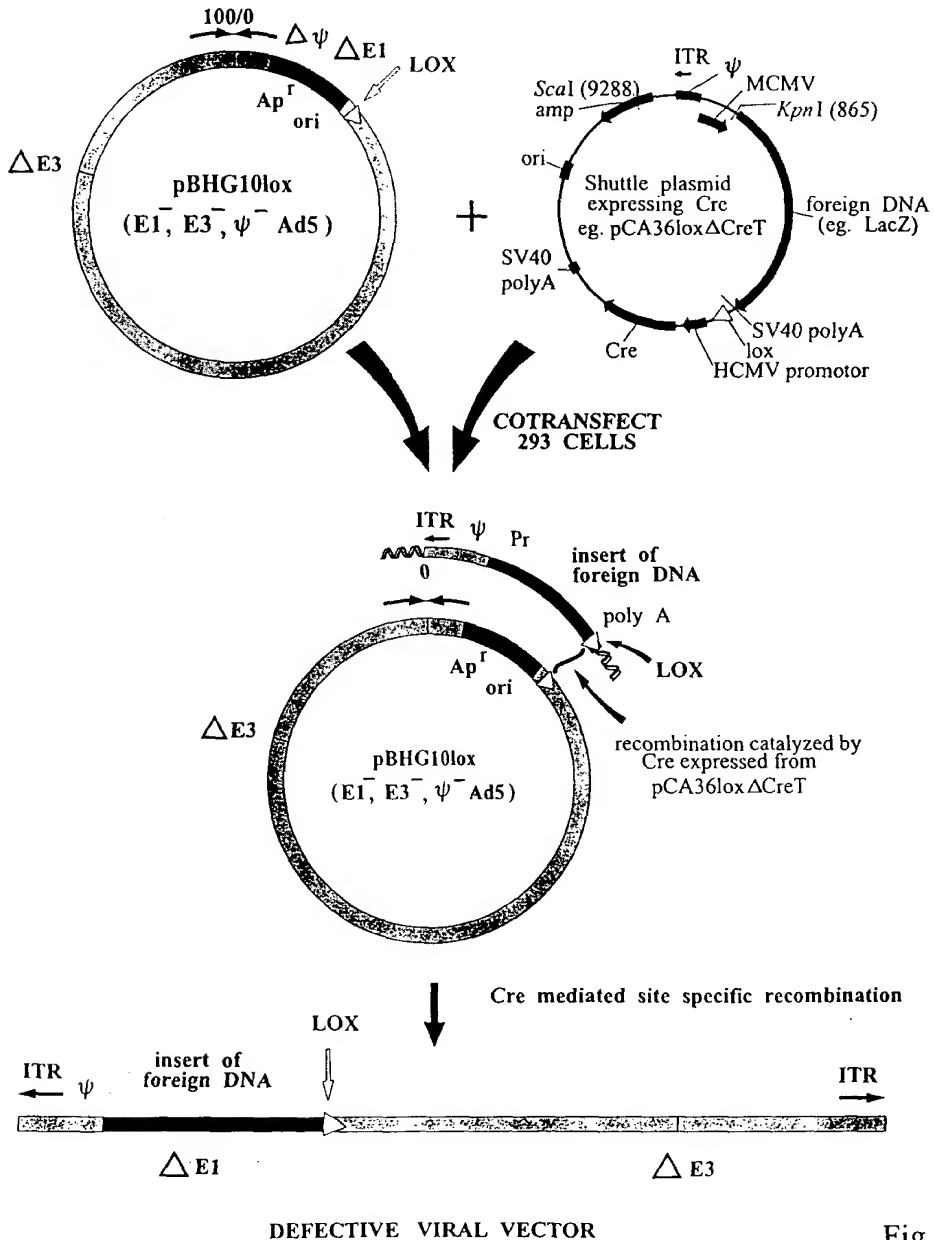


Fig. 8E

## CONSTRUCTION OF Ad GENOMIC PLASMID ENCODING CRE

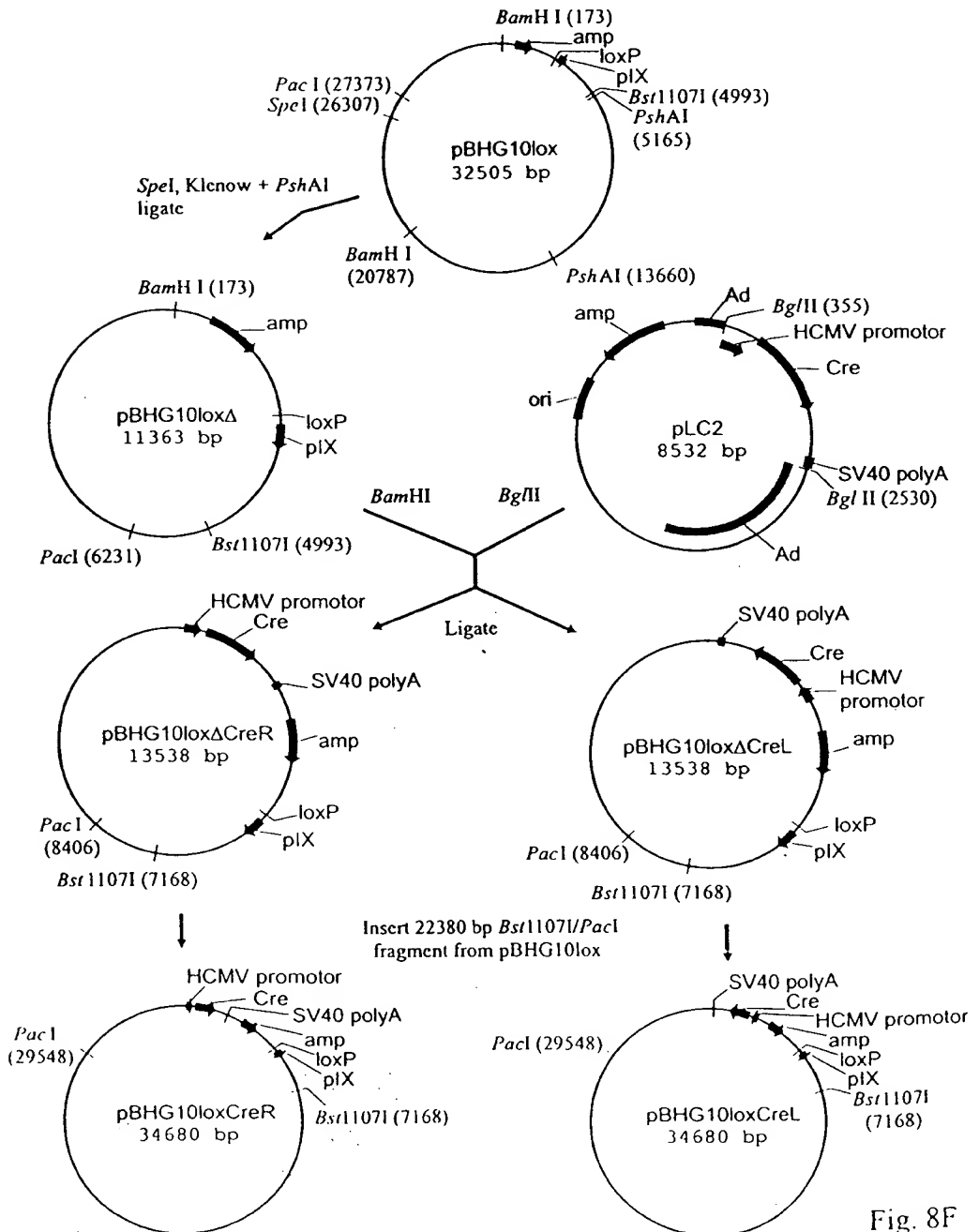
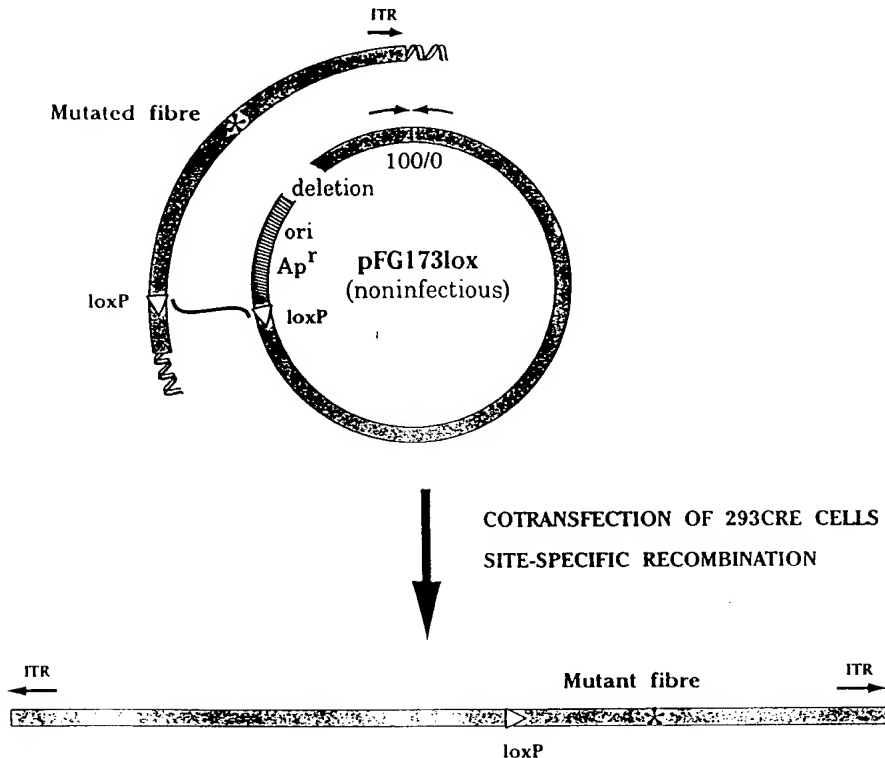


Fig. 8F

## RESCUE OF FIBRE MUTATIONS USING CRE/LOX RECOMBINATION



NONDEFECTIVE ( $E1^{+}$ ) VIRUS WITH MUTATED FIBRE GENE

Fig. 9A



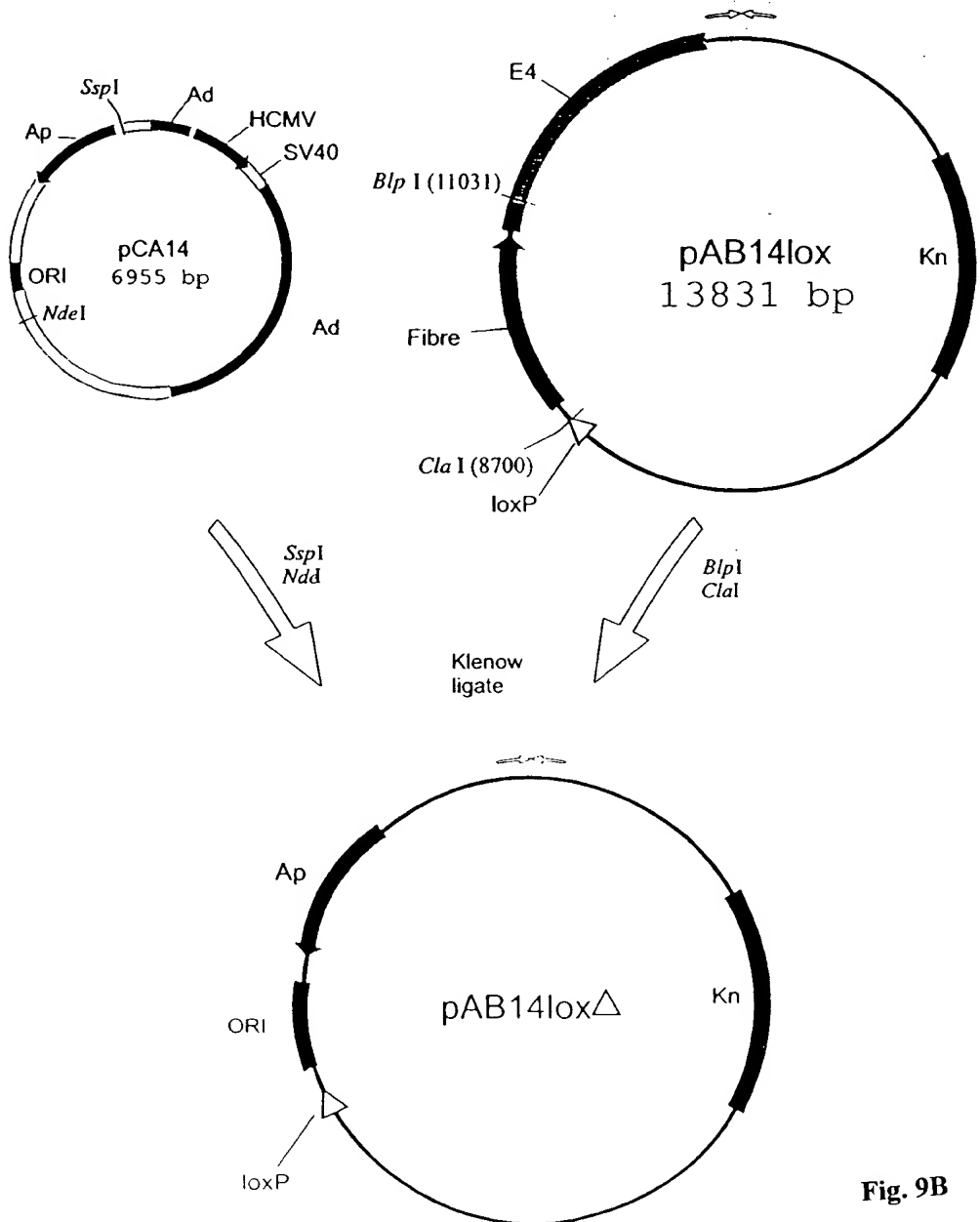
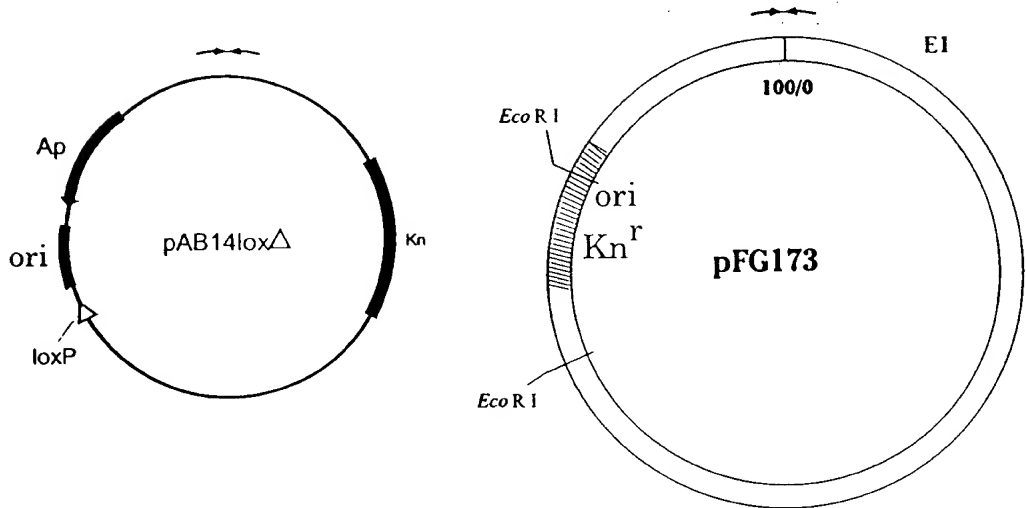
CONSTRUCTION OF pAB14lox  $\Delta$ 

Fig. 9B

## CONSTRUCTION OF pFG173lox



Restriction, transformation of *E. coli*,  
homologous recombination

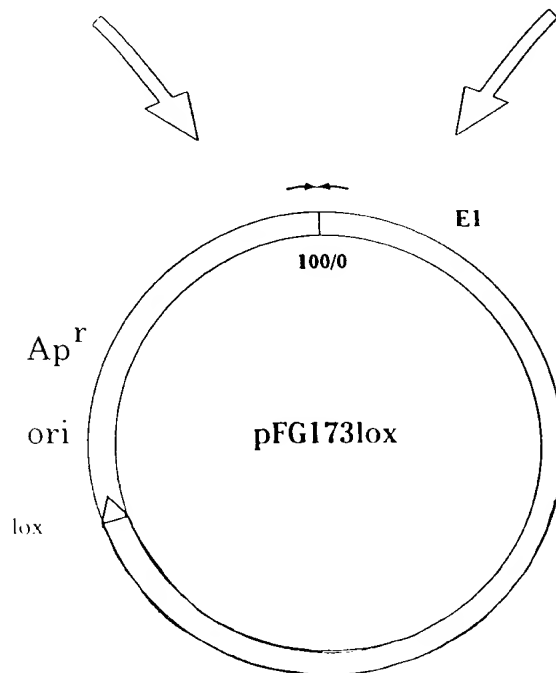


Fig. 9C

# CONSTRUCTION OF pFG23dX1lox AND pFG23dX1lox<sub>c</sub> FOR RESCUE OF MUTANT FIBRE INTO AD VIRUS

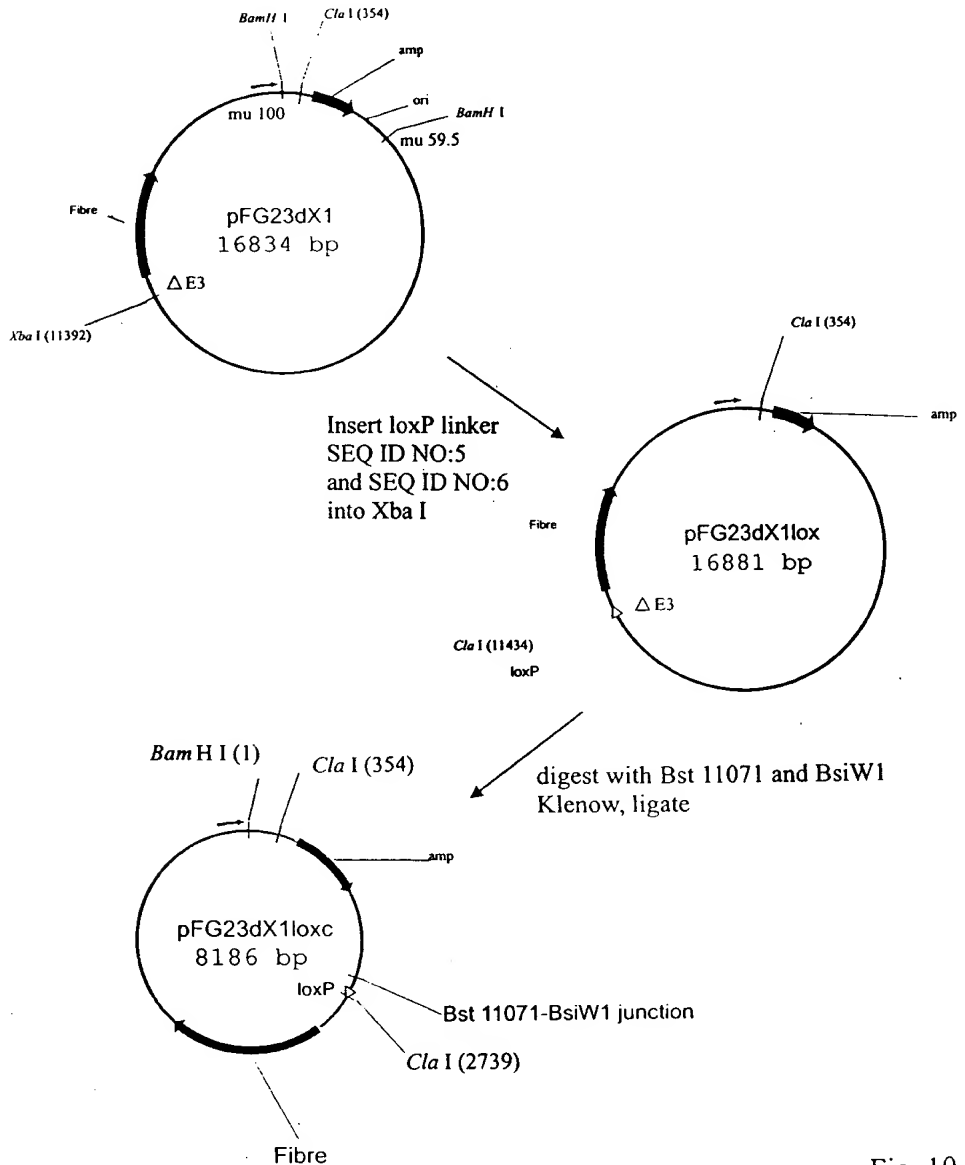


Fig. 10

# A PLASMID FOR RESCUE OF A FOREIGN DNA INTO AD VIRUS

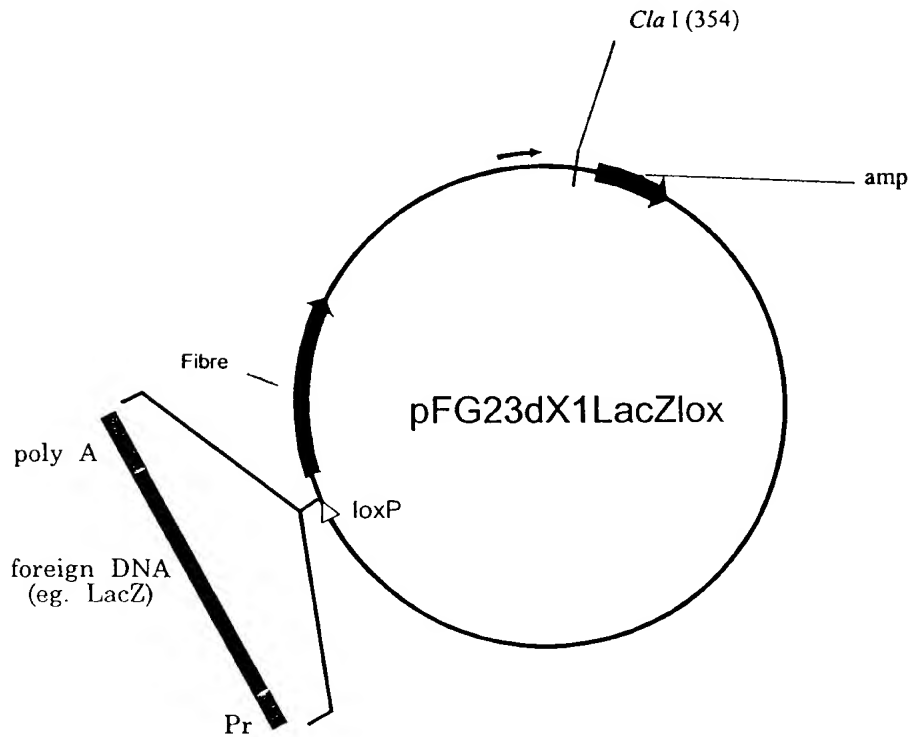
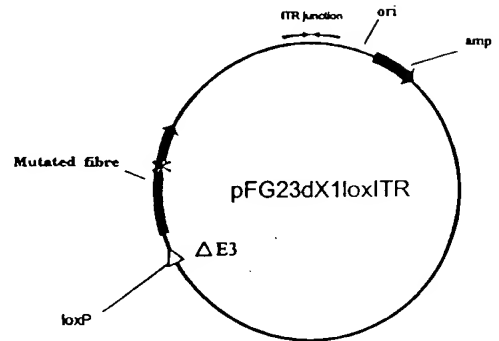
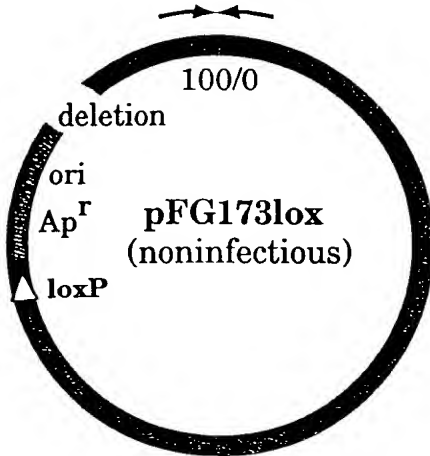


Fig. 11A

# RESCUE OF FIBRE MUTATIONS USING CRE/LOX RECOMBINATION



COTRANSFECTION OF 293CRE CELLS  
SITE-SPECIFIC RECOMBINATION



NONDEFECTIVE ( $E1^+$ ) VIRUS WITH MUTATED FIBRE GENE

FIGURE 11B

# Isolation of a virus containing a mutant fibre gene by Cre-lox recombination using DNA-TP and cotransfection

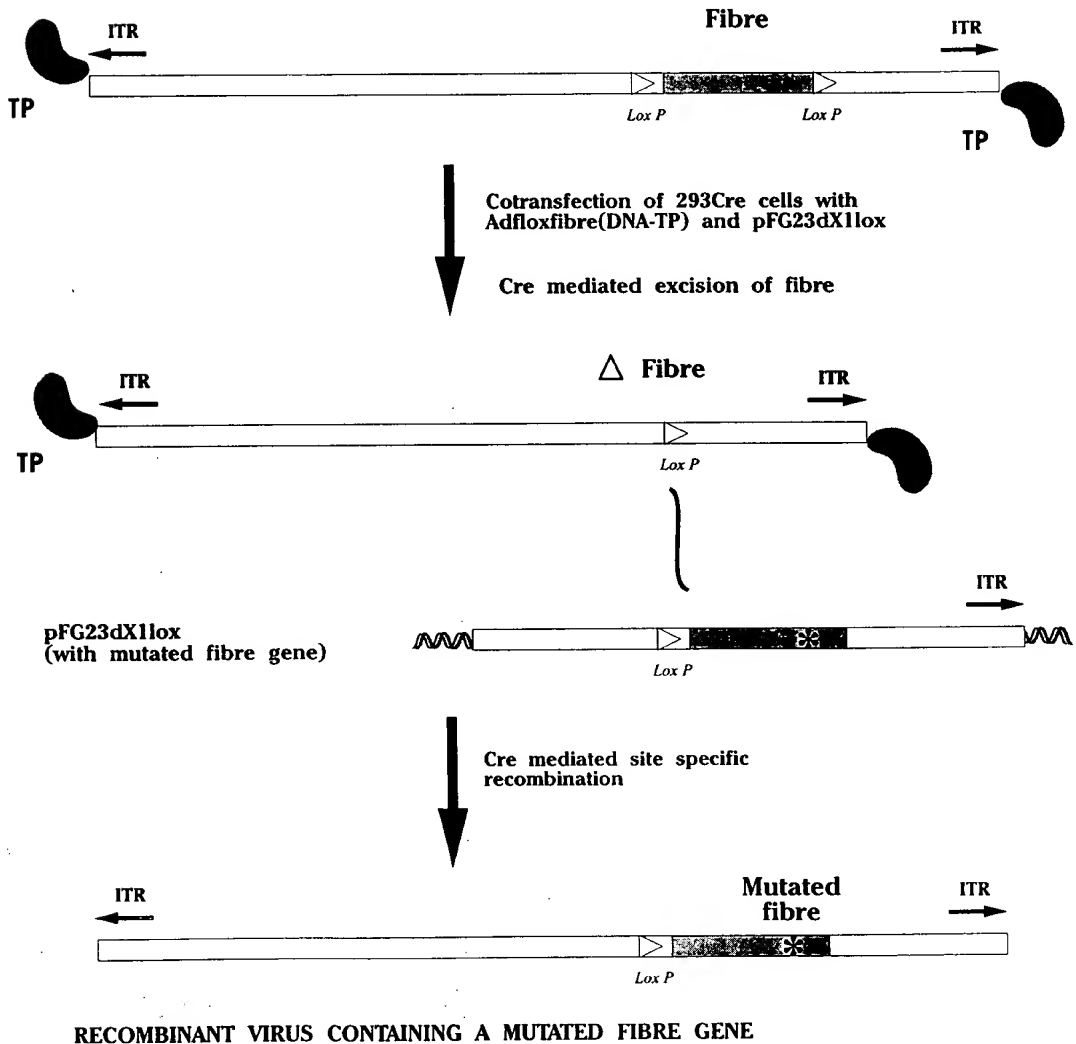
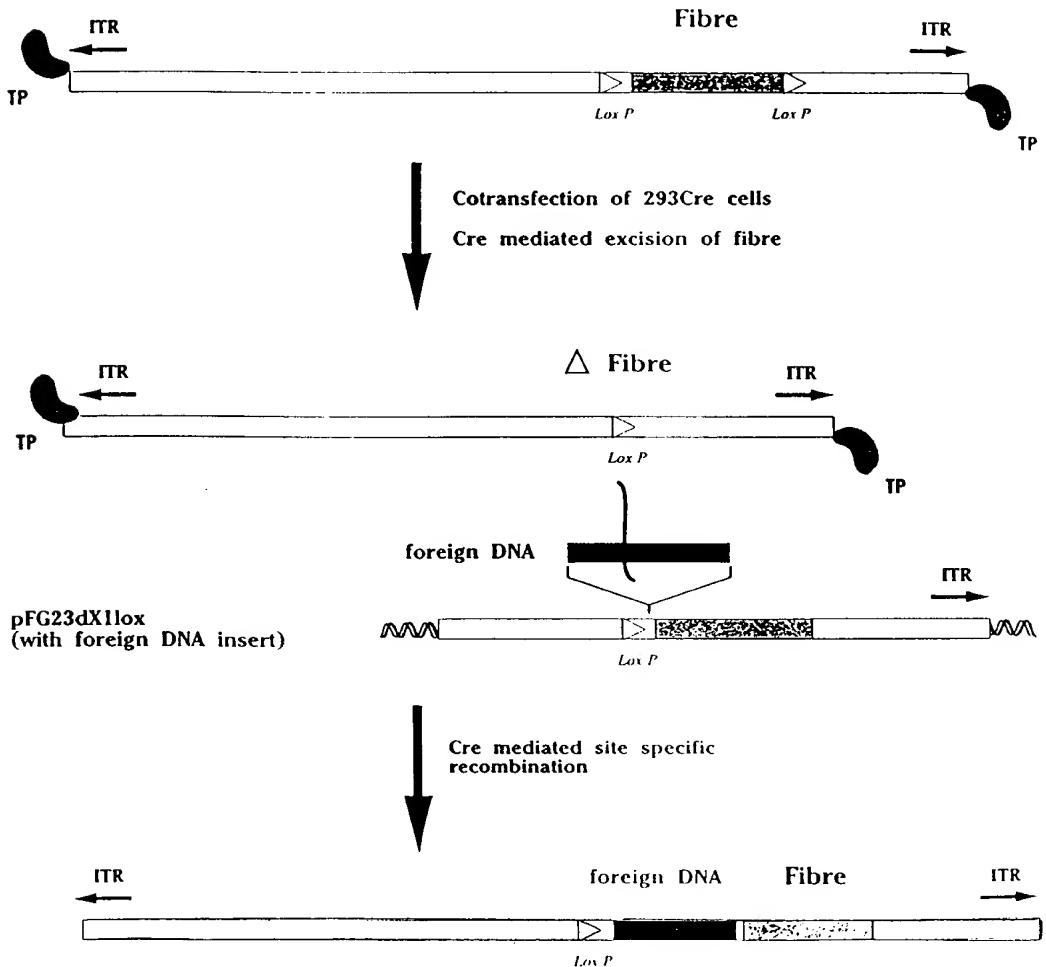


Fig. 12

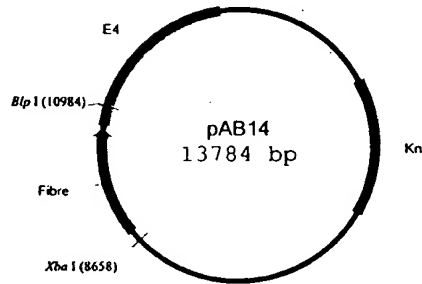
# Isolation of a virus containing a foreign DNA insert upstream of the fibre gene by Cre-lox recombination



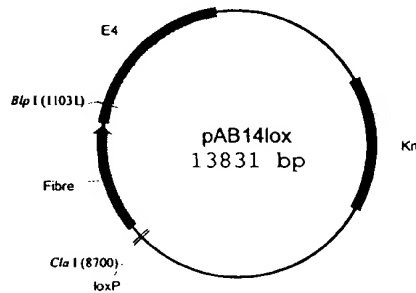
RECOMBINANT VIRUS CONTAINING AN INSERT OF FOREIGN DNA  
UPSTREAM OF THE FIBRE GENE

Fig. 13

# CONSTRUCTION OF pAB14FL0X FOR ISOLATION OF AN AD VIRUS WITH A FLOXED FIBRE GENE



Insert loxP linker  
AB6920/AB6921  
into Xba I site



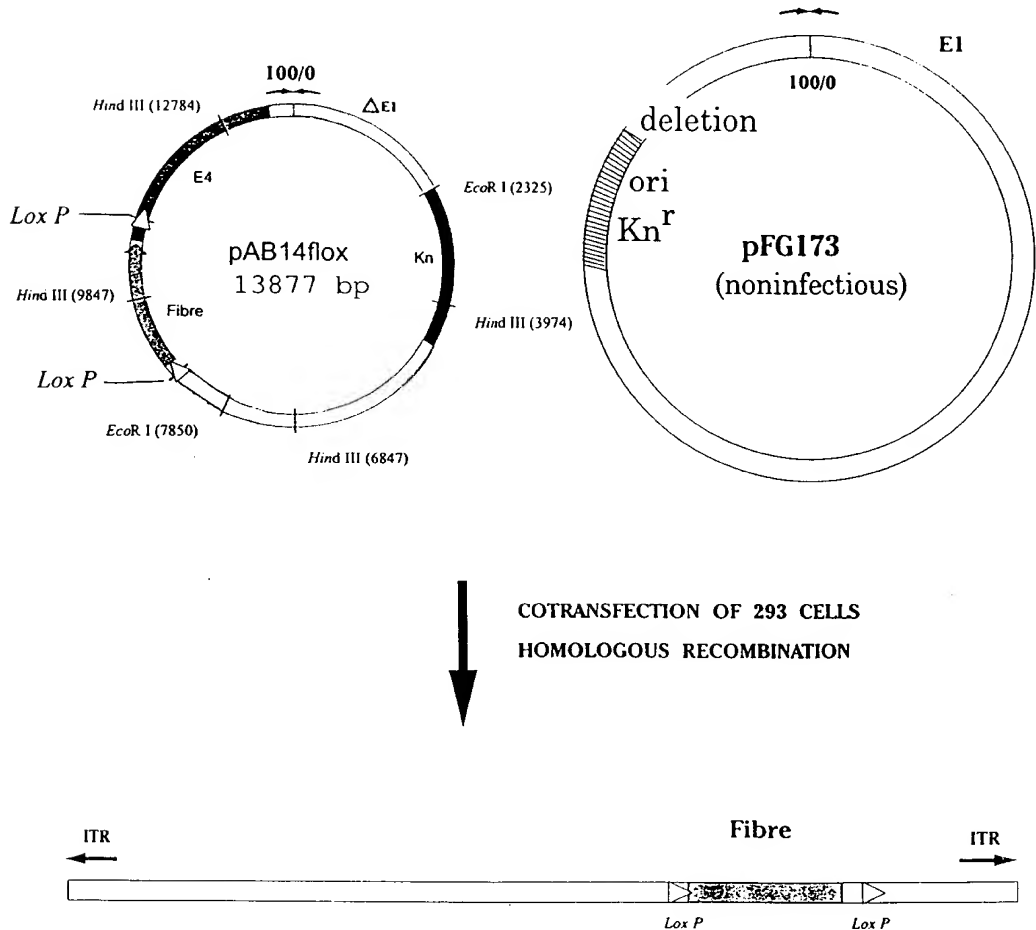
Insert loxP linker  
AB14680/AB14681  
into Bsp I site



Fig. 14



# Isolation of a virus containing a fibre gene with flanking lox P sites.



NONDEFECTIVE (EI<sup>+</sup>) VIRUS (ADFLOXFIBRE) CONTAINING A FLOXED FIBRE GENE

Fig.15